

इंटरनेट

मानक

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

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IS 8825 (1978): Cannula, Suction Irrigation with Locking Device, Microlaryngeal [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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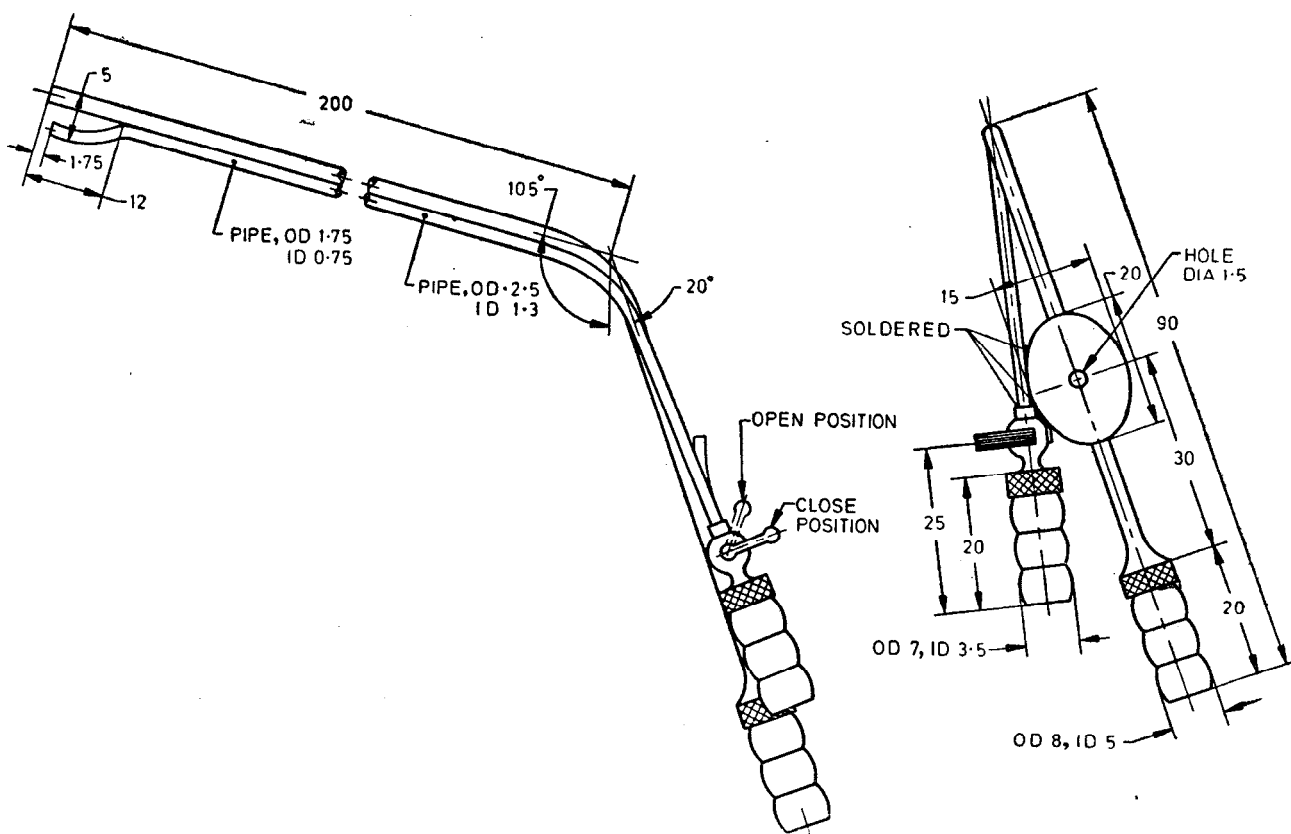


Indian Standard

SPECIFICATION FOR CANNULA, SUCTION IRRIGATION WITH LOCKING DEVICE, MICROLARYNGEAL

1. Scope — Specifies dimensional and other requirements for suction irrigation cannula with locking device used in microlaryngeal surgical operation.

2. Shape and Dimensions — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 CANNULA, SUCTION IRRIGATION WITH LOCKING DEVICE, MICROLARYNGEAL

2.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.

2.2 A deviation of $\pm 2.5^\circ$ shall be allowed on all angles.

3. Material — Stainless steel conforming to Designation 04Cr18Ni10 or 07Cr18Ni19 of Schedule V of IS : 1570 (Part V)-1972 'Schedule for wrought steel: Part V Stainless and heat resisting steels (first revision)' or brass conforming to Designation CuZn37 or CuZn40 of IS : 410-1967 'Specification for rolled brass plate, sheet, strip and foil (second revision)'.

4. Workmanship and Finish

4.1 The cannula shall be free from scales, pits, burrs and other surface defects.

4.2 The hole in the cannula shall be well formed.

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Price Rs. 5.00

4.3 The brazing or soldering shall be neat and sound and shall be free from holes when tested as mentioned in 5.1.

4.4 The locking device shall operate accurately.

4.5 The cannula if made of stainless steel shall be dull matt finished and passivated.

4.6 The cannula if made of brass shall be coated nickel and chromium conforming to Grade 2 of IS : 4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys'.

5. Tests

5.1 Leakage — The brazed or soldered portion of the cannula shall be immersed in boiling paraffin wax for 2 minutes. There shall not be any air bubble visible on the surface of the liquid.

5.2 The cannula if made of stainless steel shall be subjected to any one of the tests given in 5.2.1 or 5.2.2.

5.2.1 Copper sulphate test — The cannula shall be scrubbed with soap and warm water, rinsed in hot water, followed by a dip in 95 percent ethyl alcohol and dried. The cannula shall be completely immersed in copper sulphate solution at room temperature for 6 minutes and then washed off with fresh water. The copper sulphate solution shall be made up as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Water (H_2O)	90 ml

There shall not be any red stains or spot on the cannula after the test.

5.2.2 Corrosion resistance — Test the suction irrigation cannula in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. There shall not be any sign of corrosion visible after the completion of the test.

6. Marking — The suction irrigation cannula shall be marked with the manufacturer's name, initials or recognized trade-mark, size, the country of manufacture and the words 'SS' if made of stainless steel.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

7. Packing — The suction irrigation cannula shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another. The suction irrigation cannula may also be packed as agreed to between the purchaser and the supplier.